

IN THE CLAIMS:

1           1. (Currently Amended) A method of providing access to a server in an  
2 arrangement that includes at least one device that serves as a firewall having a protected  
3 side and an unprotected side, a first proxy adapted to allow clients on the unprotected side  
4 of the firewall to gain direct access thereto, and a second proxy adapted to allow said  
5 server, on the protected side of the firewall, to gain direct access thereto and to not allow  
6 said clients direct access thereto inside a firewall having an IP address comprising the  
7 steps of:

8           receiving at a the first proxy ~~outside the firewall~~ a connection request from a  
9 client of said clients ~~that is also outside the firewall, said first proxy having an IP address~~  
10 ~~that is different from the IP address of the firewall;~~

11           sending said connection request to the second proxy through said firewall, over a  
12 control channel previously established by a second proxy and controlled by the second  
13 proxy inside said firewall;

14           ~~said second proxy~~ authenticating the client;  
15           when the client is authenticated, said second proxy establishing a data connection  
16 with said first proxy, through said firewall, with the data connection adapted to through  
17 ~~which said first proxy can~~ forward requests of said client to said second proxy, where the  
18 data connection is distinct from the control channel.

1           2. (Currently Amended) The method of claim 1 further comprising the step of  
2 receiving a requested resource at the second proxy from the server ~~inside the firewall~~ and  
3 using the established data connection between the second proxy and the first proxy ~~client~~  
4 to forward the requested resource to the client.

1           3. (Original) The method of claim 2 wherein the resource is a document  
2 containing hyperlinks to other resources.

1           4. (Original) The method of claim 3 wherein the second proxy translates the  
2 hyperlinks in the document into references directed to and interpreted by the second  
3 proxy.

- 1           5. (Original) The method of claim 3 wherein the document is a Web page.
- 1           6. (Previously Presented) The method of claim 1 wherein the data connection  
2 uses a secure communication protocol.
- 1           7. (Currently Amended) The method of claim ~~5~~ 6 wherein the secure  
2 communication protocol is SSL.
- 1           8. (Original) The method of claim 1 wherein the client is a browser and the  
2 server is a Web server.
- 1           9. (Original) The method of claim 1 wherein the client is authenticated using a  
2 password mechanism.
- 1           10. (Original) The method of claim 9 wherein the client is authenticated using a  
2 one-time password mechanism.
- 1           11. (Currently Amended) A method of ~~providing a client access to a resource~~  
2 ~~stored behind a firewall~~ comprising the steps of:  
3           parsing information of a ~~the~~ resource ~~for~~ to identify therein hyperlinks that point  
4 ~~to other~~ resources behind a ~~the~~ firewall;  
5           rewriting said hyperlinks to point to a proxy enabled to access said resources  
6 behind the firewall; and  
7           transmitting said information of the resource with the rewritten hyperlinks to the  
8 client.
- 1           12. (Original) The method of claim 11 wherein the resource is a Web page.
- 1           13. (Original) The method of claim 11 wherein the rewritten hyperlinks also  
2 comprise security information.
- 1           14. (Previously Presented) The method of claim 1 further comprising the step of  
2 receiving at said second proxy, in response to a request for a resource from said second  
3 proxy, said requested resource from the server inside the firewall and using the

4 established connection between the second proxy and the client to forward the requested  
5 resource to the client.

1 15. (Previously Presented) The method of claim 1 further comprising the step of  
2 receiving from said first proxy, at said second proxy, a request for a resource of the  
3 server.

1 16. (Previously Presented) The method of claim 1 wherein said connection  
2 request comprises a URL, the method further comprising said second proxy executing the  
3 steps of  
4 translating said URL to a URL that corresponds to a URL of a server inside said  
5 firewall; and  
6 establishing a connection with said URL.

1 17. (Previously Presented) The method of claim 1 wherein the client is  
2 authenticated via said control channel using a password mechanism.

1 18. (Previously Presented) The method of claim 1 wherein said control channel  
2 is maintained by sending a command that requests a response, over said control channel,  
3 at intervals that insure a silence period of not more than a preselected value.

1 19. (Previously Presented) The method of claim 1 wherein said control channel  
2 is adapted to carry a limited number of different messages.

1 20. (Previously Presented) The method of claim 1 wherein said control channel  
2 is adapted to carry messages from a set that consists of  
3 a message sent by said second proxy to establish said control channel,  
4 a message sent by said first proxy to request establishment of said data  
5 connection,  
6 a hailing message that expects a reply, and  
7 a reply message that acknowledges said hailing message.

1 21. (Previously Presented) The method of claim 1 said step of establishing said  
2 data connection is followed by a step of said second proxy sending a message to said first

3 proxy, over said data connection, to inform said first proxy of the establishment of said  
4 data connection.

5 22. (Previously Presented) The method of claim 1 wherein said control channel  
6 is maintained by periodically one of the proxies sending a command that requests a  
7 response from the other of said proxies.

8 23. (Currently Amended) A method of a user at a host on an outside side of a  
9 firewall ~~fire-wall~~ obtaining web pages from a server on an inside side of said firewall  
10 comprising the steps of:

11 Receiving, at a first proxy on the outside side of the firewall that is adapted to  
12 serve as an interface ~~between servers on said inside side of said firewall fire-wall and to~~  
13 hosts on said outside side of said firewall, a connection request from a said user,  
14 employing a secure communication protocol;

15 sending said connection request through said firewall, over a control channel  
16 previously established by a second proxy on said inside side of said firewall;

17 ~~said second proxy~~ authenticating the user;

18 said second proxy establishing a data connection with said first proxy that is  
19 distinct from the control channel, through said firewall, through which said first proxy  
20 can forward requests of said user ~~client~~ to said second proxy; and

21 said user obtaining web pages from said server by directing requests to IP address  
22 of said first proxy.